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4. *An account of the Dissection of a Bitch, whose Cornua Uteri being fill'd with the bones and flesh of a former conception, had after a second conception the Ova affix't to several parts of the Abdomen: By an ingenious Physitian, a Fellow of the Royal Society.*

IT would seem a needless thing, to publish an *Observation*, to confirm the *opinion* of the production of Animals from Eggs, which is almost Universally receiv'd: but that some time since the Learned *Deimerbroeck*, and very lately *Monsieur Verney* have endeavor'd to confute and expose it. The most considerable argument they use is taken from the narrowness of the *Fallopian Tubes*, where they open into the Womb, and at their extremities. But, tho these Authors lay a great deal of stress on the structure of that passage, it cannot be accounted of any force, when *Ocular demonstration* is brought against it; and the Eggs discover'd in the Entrance, and afterward to have made their way through them into the Womb.

The sagacious Dr. *Harvey* was very near the discovery of the Egg, and its use: He came within sight of it, but unhappily over look't it. After many repeted dissections of impregnated Deer, he asserts, that Nothing for about 6 or 7 Weeks can be seen in the Horns of their Wombs: That there then appeared somewhat like an Egg, a transparent liquor included in a very thin Membrane, in which after a Week he could plainly see the rudiments of a Fetus. He gives

gives his Opinion very exprefly in his *Treatife de Partu. Viperæ ovum Unicolor & molli cortice (qualis Muliebris conceptus eſt) intra ſe continet, &c.* The Viper has Eggs, whoſe parts are of one colour, incloſed in a ſoft Shell; and the very ſame is a *Womans conception*. But he could not inform himſelf, how that *Egg* in *Women* or in *Does* comes into the *Womb*. He declares himſelf fully ſatisfied after ſeveral Tryals, that no *liquor* can be ſo forcibly injected into the *Womb*, as to make its paſſage into the place of *Conception*. Nor would he ſuſpect, that the *Seed* of the *Female* lay till the *Egg* appear'd, in any crannies or *reſſes* of the *Horns*; which he aſſerts are then as ſmooth and ſoft, as the *Corpus calloſum* of the *Brain*. Dr. *Harvey* having thus ſufficiently confuted the opinion, which till his time prevail'd, of the production of *Animals* from the mixture of the *Seminal matter* of both *Sexes*: 'twas not ſo difficult to diſcover, whence the *Egg* came, which he ſaw about 7 *Weeks* after impregnation. The *Fallopian Tubes*, which joyn to the *Horns* and terminate very near the *Ovaria* (as the *teſtes Muliebres* are generally now call'd) directed the *Ingenious* and *Induſtrious de Graff* to make more accurate diſſections of them. He preſently ſaw, that the limpid liquor, which Dr. *Harvey* thought was deſigned to humect the parts adjacent, was contain'd in an entire *Membrane*, and exactly answered the deſcription he gives of the *Eggs* he ſaw in the *Womb*.

As he firſt diſcover'd the uſe of thoſe *Globules* in the *Ovaria*, ſo he has been ſo happy in that excellent piece *de Mulieris Organis*, to give ſo demonſtrative an account of the alteration of thoſe wch are impregnated; the way of excluding them by the glandulous ſubſtance ſwelling behind them, and the *Aperture* through which they paſs, remaining open all the time of the *geſtation*, and exactly in each *Ovaryum* answering the number of *Embryos* in each *Horn*: But more particularly he has ſo very nicely obſerved the *Progreſs* of the *Eggs* in *Conies*, the very time of their paſſing into the *Tubes*, and appearing in the *Horns* of the *Womb*,  
(which

(which comes very near that proportion of time Dr. Harvey observed the *Egs* in his *Deer*), that nothing can be objected of force enough to shake an Opinion confirmed by so many and so exact observations. He has prevented the Objection which *Deimerbroech* and Mr. *Verney* use against him, That the *Tube* is too narrow at each end to transmit *Globules* of that bigness: Alleaging that the *Hole* by which it has its exit out of the *Ovarium* is as narrow; that no Force is used to open it, but it expands it self, as the *Os Uteri* before the *Birth*: As *Nuts* and *Peach-Stones* &c. give way to the germinating Plant, which is less able to make its way then the *Eg*. But besides, (which these Authors urge,) tho the extremity of the *Tube* be membranous in most Quadrupeds, in which its possible a *seminal Liquor*: might be transmitted to the *Womb*; in *Women* its divided, like a *Knot* of *Ribbon*, and is no more adapted to receive any thing but an *Eg*, then the *Fingers* expanded to receive and contain a *Fluid*. The *Eg* has not been able sometimes to get into the *Womb*; *Riolanus* speaks of a *human Fetus* seen in one of the *Tubes*: and Dr. *Harvey* assures you he has seen it himself. In the dissection of a *Bitch* at *Oxford*, the *Embryos* either could not get into it, the *Membranous Expansion* being hindered from ascending to and clipping the *Ovaria*, by the fulness of the *Womb*; or from the same cause were forc'd back again. She had been with *Whelp*: By a blow she received the *Fetus* died within her. She discharged by the *Pudendum* a great quantity of putrid *Flesh* and *Matter*. She was afterward able to run in the *Pack*. After the second *Impregnation* she was observed to have a very ill shap'd belly. When dead the owner a Person of Quality sent her to *Oxford*. The *Horns* of the *Womb* were so stuf't up with the *Bones* and firmer *Muscles* and thicker *Skin* of the *Fetus*'s, (Some of them lay in the usual posture, the *Skeletons* of which were entire, the interstices of the bones only filled up with *Skin* and *Flesh*), that no *Seminal matter*, or *Aura seminalis* could possibly find a

passage to the *Ovarium*. The *Egs* affected in the second impregnation, finding no room in the *Horns*, were forc't back into the *Abdomen* : where they were found affixed to the *Mesentary, Kidney &c.* Only *Two* of the Bags had a Communication with the Womb by a slender Duct. These I suppose fell into the *Horns* first, and began to fasten to them, but growing larger were forc't to retire. The other *Three* had had no reception there at all. The *Membranes* which contained the *Embrios* were all of them very Thin, and the *Animalcles* in them had wanted a due supply of nutritious matter. This seems to give as clear a proof of the truth of the modern opinion, as can be expected or desired. But if *Anatome* had not discovered these *Egs* and demonstrated their use and progress to the Womb, and the advances they there make ; it would appear now a very difficult task from the other opinion to persuade an inquisitive Person, how an *Animal* can be produc'd from the mixture of the *Seminal Liquors* of both Sexes. Every Animal, tho upon other accounts esteem'd the *most despicable*, is made up of so many Different parts, and those of so excellent a Contrivance, and so wonderful a Respect to one another, that tis not to be imagin'd, that the *Seminal fluids* lying loose and at large in the Capacity of the Womb, and expos'd to so many accidents, could give a production so admirable.

Every Jogg of it from the frequent Motions of the *Female*, would disturb and distract the present designs of the *Plastic* power they speak of. The *Humors* and *Vapors* which have a passage to, and *humect* all the parts of the Body, would in the Womb break in on the soft *Seminal Mass*, and break off the tender filaments when first a forming. In *Quadrupeds* the *Peristaltic motion* of the *Horns* would perpetually separate the parts of the *Seminal Collection*, and scatter those pieces, which Nature is putting carefully together into the *Fabric* of an Animal. From this way of Conception Monsters would be very frequently brought forth, and would be much less wondred at than a perfect producti-

duction is now. We see how very industrious Nature is in preserving the *Species of Vegetables*. When the *tender Seed* is first formed, it's secured from external Injuries by various sorts of *Cases*. The *Embryo* of the *Plant* contained in the *Seed* hath 3 or 4 *Coats* to inclose it: the outermost is designed of sufficient strength to preserve it. None of the Juices of the Earth are permitted to enter in, but such as are fit to put into motion or supply the liquor contained in the inner Membrane, from whence it has its first increase. And as the *Egs* of Animals are designed for the same purpose the *Seeds* of *Vegetables* are; so there is very great agreeableness between them. The *Shel* and *Membranes* of *Egs* (except those which are brought to perfection in the *Female*) are very like those of *Seeds*. Both have a *Colliquamentum*, or more fine and Spirituous Liquor which is first to be spent, before those which are grosser can be received in the extremely fine and *Small-pores* of the *Fetus* when only just begun to be formed. And in Both, the *Parts* of the *Embryo* are designed and drawn out, before the *Eg* has been at all affected by the *Masculine-Seed*, or the *Vegetable Seed* put into the *Womb* of the *Earth*. The *Figure* of the *Plant* may be seen in the *larger Seeds*, and the *Miniature* of a *Chick* in the *Spot* of the *Yolk*. But if so great and so various an Artifice is necessary to raise a *Plant*, shall *Nature* be thought less carefull and industrious in the propagation of *Animals*, whose parts are more numerous and of a much finer texture. And since those *Animals* and *Vegetables* are by some allowed to take their original from *Egs* and *Seeds*, whose largeness will permit them to observe them; it seems an opinion with too much precipitancy taken up, that supposes some of the greater *Animals*, and the least of these and *Plants*, are supply'd from *Equivocal generation*; That corrupted matter from the *Warmth* of the *Air*, or the motions of its own *Principles*, can form the parts of the One or the Other. For the *Heat* of the *Air* endeavours to dissipate and remove the thinner parts from the more gross, since no

*membrane* is supposed to confine them: and the more active principles are from their own nature always struggling to be quit of them. And this way, the parts of an Animal would be sooner broken into pieces, than a new one generated. But they believe it may be allowed, that the *least* and most *inconsiderable Animals and Plants* are this way Formed. But their *Minuteness* make the *Difficulty Greater*. A *Membrane* to include the *Conception* with its first nourishment seems more necessary here, where the parts are more delicately put together, and from their exceeding fineness it might more easily miscarry. If after this method *some Animals and Plants* can be produc't, why is the same *species* and these very *Individuals* they suppose so made, furnish with *Organs for Univocal Generation*? If *Slime* and *Mud* can afford *Frogs* and *Fels*, why does the First *Spawn* so many *Egs*, and are the other *Viviparous*? Why does not so great a diversity of putrid parts in the Earth, differently affected by unaccountable accidents, often present us with new living Creatures, and Vegetables of *peculiar specie's*? But no such new Plants are taken notice of, and the *Mites* are of the same sort from *Cheese* and from *Meal*. The objection which is offer'd against *Epicurus*, will be made with the same force against this Opinion. If the Earth at first equivocally produc't Men, Quadrupeds, Birds, and Fish, why has it not done it very frequently or at least sometimes since? We begin to suspect the Cheat, when the Artificer is not able to perform the same again.

*The Anatomy of a Monstrous PIG Communicated to the R. S. By an Ingenious Student in Physick.*

ABOUT the beginning of *Decem. 1682.* among many Pigs of a Sow, there was one wch had no passage for the *Fæces* either Solid or Liquid, altho the *Anus* was not outwardly clos'd up; which whether natural, or caused by the Neighbours who had attempted a Cure before I saw it, I  
cannot